

# CONSEAL FLOOR COATINGS

## APPLICATION INSTRUCTIONS

**CONSEAL** epoxy coatings are two part materials that consist of a tin of pigmented resin formulated with mineral filler or ceramic micro-spheres and other additives, and a bottle of hardener that are mixed together immediately before use. The undercoat resin is used with SYNTAC 1055 hardener because it is surface tolerant and adheres well to most substrates. SYNTAC 220 hardener is used for the top coat because it has excellent resistance to oil and sunlight.

Before commencing work check that you have the correct materials. **To ensure that there are no colour variations in the finished job, only use CONSEAL that has the same batch number on the tin lid for the top coat** together with SYNTAC EPH 220 hardener. The type and quality of the paint application roller will effect the look of the finished job. We recommend that you use 15" rollers supplied by ourselves to ensure an even finish. You will also require roller extension handles, roller trays, brushes, SYNTAC 100 solvent, a plastic bucket, cordless or pneumatic mixing equipment, gloves, masking tape, rags etc.

**PREPARATION** New green concrete should be primed with CONSEAL P which will adhere well even to fresh wet concrete. New concrete that is hard and dust free should be primed with CONSEAL P thinned with 5% SYNTAC 100 solvent. New concrete that has a layer of friable, dusty material on its surface that has been caused by premature drying out, must have the friable material removed by blasting or acid etching.

Ceramic tiles are best primed with SYNTAC S primer to ensure perfect adhesion of the CONSEAL coating. SYNTAC S is a clear, very low viscosity solution that must be applied as thinly as possible. It bonds chemically to both the substrate and to epoxy resin to ensure excellent adhesion of the coating.

Although CONSEAL floor coatings will give good service when applied over conventional coatings that are in good condition, longer life can be expected if they are applied directly to the substrate. Old floors should be thoroughly cleaned, taking care to entirely remove all traces of oil, grease, polish etc.

A few layers of old single pack paint together with accumulated oil and grease can be removed with STRIPPIT CLEAN paint and grease remover followed by pressure washing with a rotary cleaner. Thick layers of old paint are best removed with a scabblers, but care must be taken not to damage the underlying concrete, especially if it has poor quality friable areas.

Rough concrete can be smoothed with a diamond floor grinding machine but it is a slow process. Several types can be hired from tool and plant hire companies. Hard, glossy surfaces that do not provide a key for the new coating should be tested for adhesion by the application of small test areas or abraded to roughen the surface. Large areas can be economically shot blasted by specialist contractors who use contained equipment that is relatively dust free.



**A floor scabblers will quickly remove thick layers of old coatings.**

Surface defects can be filled with CONSEAL M epoxy mortar while areas of rough or uneven concrete can be levelled with CONSEAL SL self levelling screed.



Stir thoroughly with a spiral mixer used in a cordless drill.

**MIXING** Epoxy resins and hardeners must be thoroughly mixed in the correct ratios to ensure complete curing of the product. Do not try to accelerate or retard setting of the material by varying the amount of hardener used as this will cause the coating not to set at all, or to prematurely fail.

Each can of CONSEAL epoxy floor coating is supplied with the correct amount of hardener, all of which must be added to the can of resin and mixed well immediately before use. Small packs of a litre or less can be mixed by hand, but a spiral mixer used in a pneumatic or cordless drill is essential for mixing larger packs. If a small amount of material is required the components must be accurately weighed in the proportions shown on the hardener label.

**MIXING PROCEDURE** To ensure success, add all of the hardener to the tin of resin making sure that no hardener remains in its container. Mix the resin and hardener in the tin with a powered stirrer, pour the mixed material into a bucket and mix again. The tin can be washed out with a small amount of solvent which can be added to the bucket and mixed in. This procedure is necessary because it is difficult to fully mix the product in a tin that is completely full.

**SOLVENT** CONSEAL LSC & LS may require the addition of up to 5% solvent to reduce it to a suitable viscosity for application. **The viscosity is correct when the product is easy to apply and quickly flows to a smooth finish.** Do not use more than 5% solvent because too thin a coat will be applied and it will cure to patchy finish with dull areas. Solvent must not be added to CONSEAL TSF as this is a solvent free coating.

**APPLICATION** CONSEAL epoxy floor coatings can be applied in high humidity but in cold and damp conditions a slight reduction of gloss will occur on the finished coating. CONSEAL can be applied by any method but 15" medium pile rollers fitted with extension handles available from Reactive Resins produce an excellent finish. Large areas should be divided up into manageable sections along expansion joints etc. Cut in around the perimeter of the area to be coated with a brush or 4" roller before applying an even coat with a roller starting in a corner. Apply the mixed material as evenly as possible rolling in two directions where necessary. If the product thickens during application add a small amount of solvent to reduce its viscosity.



Roller application is quick and easy and gives a good finish.

**CONSEAL** is easily spread over large areas with a rubber floor squeegee. Simply pour the resin on the floor, spread with the squeegee and roll to an even thickness with a 15" roller. Use the roller on a long extension handle so that long strokes can be used to achieve an even thickness of coating without puddles or starved areas.

**CONSEAL** epoxy floor coatings will remain usable for between 30 and 90 minutes, depending on the ambient temperature. Pot life can be extended by pouring the mixed material into trays which will allow the exothermic heat generated by the curing reaction of the resin and hardener to dissipate. In cold weather up to 5% SYNTAC solvent may be added to reduce the viscosity of the material.

**NON SLIP ADDITIVES** We have several different grades of fused alumina abrasive that can be added to CONSEAL to provide various levels of slip resistance. The CONSEAL should be mixed in the usual way and the abrasive added to the bucket of mixed CONSEAL and stirred in. For best results the abrasive should be used in the under coat and over-coated with another coat of CONSEAL.

**Please call Reactive Resins on 01208 264999 for advise if you have any doubts or questions regarding preparation or application.**

**After business hours please call 07870 567585**

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